Navajo Abandoned Uranium Mine

Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits, pits and waste piles. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

Mine Name: Charles Huskon No. 19
Mine IDs: 120, 229

Navajo AUM Western Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

20074.063.017.0020

August 2011

Part I	Site Identification, Location and Status			
Site Names a	nd ID number	s as applicabl	e	
Mine ID:	120; 229			
Map ID:	120: W32 229: W31			
CERCLIS:	NNN0009092	09		
Navajo Abar	ndoned Mine L	and Reclama	tion Program: 120: 229:	NA-0123 NA-0124c
Local name /	Aliases: Char	les Huskon #1	9	
Chapter and	local area: Co	palmine Mesa		
County: Coo	conino	State: Arizo	na	
Lat/Long:			11.39820095 W 1.401151253 W	
Nearby road	and highway:	US-89	Local Post Office:	Cameron, AZ
Surface Land below	l Status: check	one or more	and provide owners	hip and contact information
Tribal Trust Private Bureau of La State			Public lands Tribal Fee Land Allotment Fee land	
Subsurface N	Mineral Rights	:		
No information	on on subsurface	e mineral right	s ownership was four	nd in the EPA/AUM Database.
Claim and o	perator inform	ation:		
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The mine surface land status is classified as Tribal Trust Land. Historical documents identified the operator of the mine as Utco Uranium Corporation in 1957. No additional historical ownership / lease information was identified in the EPA / AUM database.

Number of residential structures within 200 feet of mine: None

Part II Summary of Radiological Readings

Mine ID: 120

Highest gamma radiation measurement: 110,148 counts per minute (cpm)

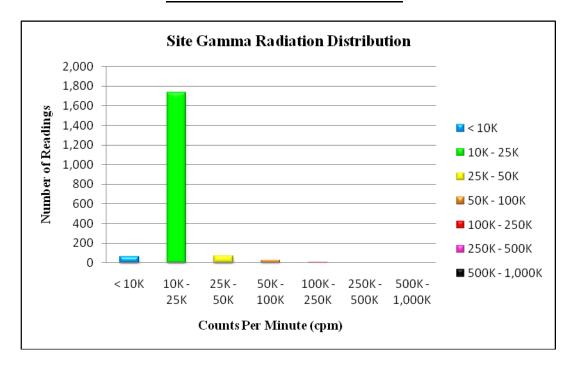
Background Average: 12,892 cpm **Two Times Background:** 25,784 cpm

Describe any other radiological measurements:

A total of 1,897 gamma radiation measurements were collected from the mine site, ranging from 5,599 cpm to 110,148 cpm. The measurements are represented in Figures 1 and 2.

Distribution Chart and Statistics:

Site Gamma Radiation	Statistics
Number of Readings	1,897
Minimum (cpm)	5,599
Maximum (cpm)	110,148
Mean (cpm)	14,390
Median (cpm)	12,377
Standard Deviation	8,532



Mine ID: 229

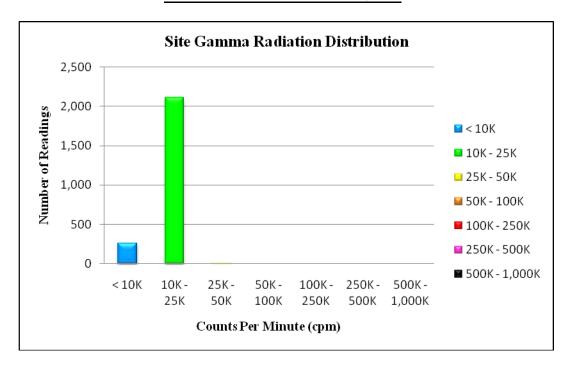
Highest gamma radiation measurement: 25,404 counts per minute (cpm)

Background Average: 12,871 cpm **Two Times Background:** 25,742 cpm

Describe any other radiological measurements:

A total of 2,378 gamma radiation measurements were collected from the mine site, ranging from 7,246 cpm to 25,404 cpm. Measurements collected in the vicinity of the reclamation area were found at a maximum level of approximately 20,000 cpm. The measurements are represented in Figures 1 and 2.

Site Gamma Radiation S	tatistics
Number of Readings	2,378
Minimum (cpm)	7,246
Maximum (cpm)	25,404
Mean (cpm)	13,511
Median (cpm)	13,981
Standard Deviation	2,157



Part III Status of Reclamation and Mine Waste

Mine ID: 120

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: Yes Waste Pile onsite: No

NAMLRP Project Number: NA-0123

NAMLRP Mine features: 1 Rim Strip / Pit

The following information was obtained from field observations collected during the 2011 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

Observed reclamation work and status:

Adits:

None observed

Waste Piles:

None observed

Pits:

None observed

Shafts:

None observed

Other Debris and Mine Features:

Excavation area in center of site

Mine ID: 229

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: Yes Waste Pile onsite: No

NAMLRP Project Number: NA-0124c

NAMLRP Mine features: 1 Rim Strip / Pit

The following information was obtained from field observations collected during the 2011 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

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Adits:

None observed

Waste Piles:

None observed

Pits:

None observed

Shafts:

None observed

Other Debris and Mine Features:

2 reclamation caps: Cap 1 - 100' x 80' x 2.5', red-brown soil with small gravel and berm along SE corner; Cap 2 - 75'dia x 1.5'h, red-brown soil with small gravel

Part IV Site Observations and Environs

Observed Residential Structures (number and human habitation status of structures at the following distances from the mine site):

0 to 200 feet: None observed

200 feet to 0.25 mile: Housing compound 0.15 mi E of site

Observed Public or Commercial Structures (schools, clinics, Chapter Houses, places of business and any other structures used by members of the community at the following distances from the mine site):

0 to 200 feet: None observed

200 feet to 0.25 mile: None observed

Levels measured around the perimeter(s) of the identified structure(s):

Background levels

Observed Water Sources (number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine site):

0 to 0.25 miles: Small livestock pond on site #229

0.25 miles to 4 miles: Seasonal tributary to Little Colorado River approximately 1.5 mi W of sites, Little Colorado River approximately 2.5 mi S of sites

Sensitive Environments (all sensitive environments located within visible range of the mine site, including: wetlands, endangered species, habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation):

None observed

Known Site History (information from interviews with Chapter officials and residents and database review, includes: mine ownership, type of mining operation, period of operation, known amount of production, and any other information provided):

The Charles Huskon No. 19 mine claim consists of two separate mine sites (#'s 120, 229) with a total combined area of 58,832.77 m². The mine was identified as being operational in 1957. While operational, the mine had a total reported production volume of 696 tons. The mine surface land status is classified as Tribal Trust Land. Historical documents identified the operator of the mine as Utco Uranium Corporation in 1957. No additional historical ownership / lease information was identified in the EPA / AUM database.

Part V Response Action Summary

Summary of Evaluation Factors:

Accessibility:

Was the mine easily accessible to potential human activity? Yes

Radiological Measurements:

Were any gamma radiation measurements collected at the mine greater than two times the site-specific background levels?

Yes

Waste Piles:

Were any unreclaimed waste piles observed at the mine with gamma radiation measurements greater than two times the site-specific background levels? No

Structures:

Were any structures observed within 200 feet of the mine? No

Potential Drinking Water Sources:

Were any potential drinking water sources observed within 4 miles of the mine? Yes

Reclamation:

Was the mine reported to be previously reclaimed, or did the mine appear to be reclaimed?

Yes

Part VI Photos



Photo 1: Mine Site #120



Photo 2: Mine Site #120; Berm



Photo 3: Mine Site #120; Nearby house



Photo 4: Mine Site #120; Nearby house



Photo 5: Mine Site #120; Nearby house



Photo 6: Mine Site #120; Nearby house



Photo 7: Mine Site #120; Nearby house



Photo 8: Mine Site #229



Photo 9: Mine Site #229; Reclamation area and spring/pond



Photo 10: Mine Site #229; Reclamation area



Photo 11: Mine Site #229; Spring/pond

Part VII Contacts Reports and Information

Name:	Eugene Esplain
Title or official role (if any):	Navajo EPA Superfund Program
Telephone number:	(928) 871-7331
Address:	PO Box 2946, Window Rock, AZ 86515
Information provided:	Lead Regulatory Agency
Name	
Name:	
Title or official role (if any):	
Telephone number:	
Address:	
Information provided:	
Name:	
Title or official role (if any):	
Telephone number:	
Address:	
Information provided:	

Figure 1 - Gamma Radiation Measurements, Above Two Times Background
Charles Huskon No. 19 (120, 229)
Coalmine Mesa Chapter, Navajo Nation

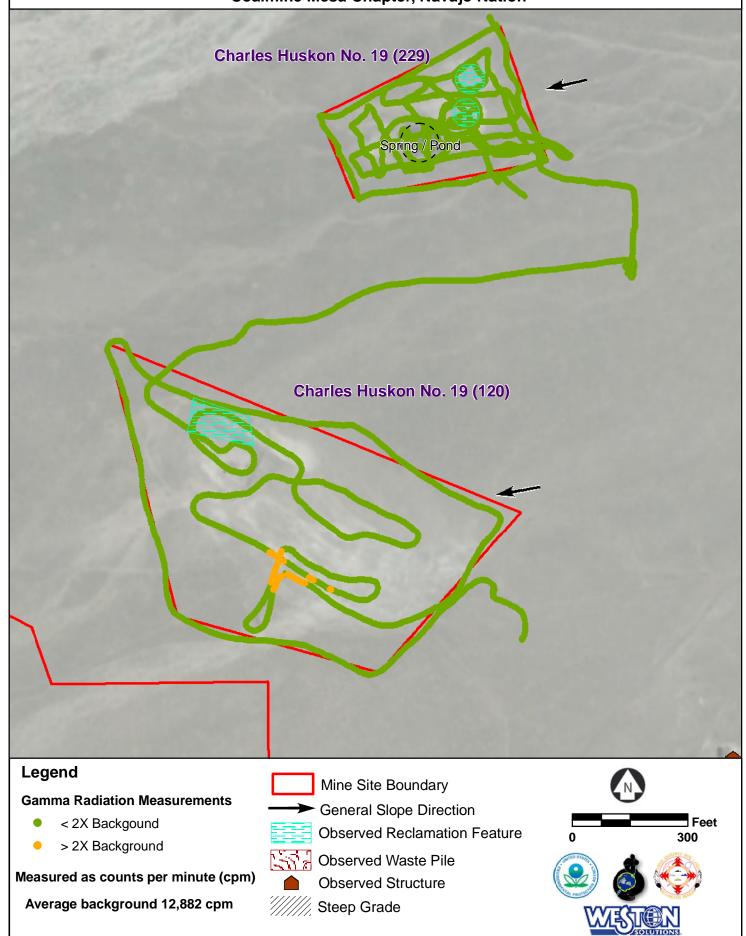


Figure 2 - Gamma Radiation Measurements Charles Huskon No. 19 (120, 229) Coalmine Mesa Chapter, Navajo Nation

